Work Order ID 10 September-27-13 12:48:00 I		1.	*107	555*						Page 1	l
Item ID: D3137-3 Revision ID: Item Name: Guide		JD 5 1 4	Accept	*N900	040	100)* s	etup Start Stop	1 71	S1* S2*	
Start Date: 9/27/13 Required Date: 9/27/13 Reference:	Start Qty: '20.09' Req'd Qty: 20.00	*20* *20*		Cust Item II Customer:	D:				, ,		
	an: <u>MU</u>	Date: <u>/3-0% - 3</u>	O Tooling:	Dá	ıte:		R	un Start Stop	I <i>N</i>	R1*	
QC:		Date:	SPC (Y/N):	Da	ite:			•	*N	R2*	
Sequence ID/ Work Center ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	••••
Draw Nbr Re	vision Nbr	-				,					
D3137 Rev	v F										
*100 *100* Bandsaw Jeaspa Bandsaw	BAND SAW Memo Cut Blanks.	Blank size: 1.250" x .750	0.00	X 13/10/0	53		40	B			
*110 *110* HAAS 1 HAAS CNC vertical machine #1	HAAS CNC VERTICAI Memo	L MACHINING #1 as per Folio FA242 & Do	0.00 0.00 0.00 ZŽ	L 13/10/0 [b_13/10/05	4		40	6			t .
120 *120* QC Quality Control	QC2- Inspect parts off n			L 13/10/09	/ -		HO	Ø			

							•				DQA:	Date	:
NCR:	Yes	/ No				WORK ORDER NON-O	CON	FORN	MANCE / UP	DATE			
											QA Closed:	Date	:
Work Orde	er:					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part N	- . No.				***************************************	Rework Scrap Use-as-is		f Therm	Skid-tube Machining noforming	Crosstube Small Fab Finishing	ĭ	Water Jet d. Eng. Coor. re/Packaging	Engineering Quality Other
NCR N	NO					Work Order Update	J		Large Fab	Composite		Supplier	
Root					Descri	ption of work order update	Ini	itial	Act	tion	Sign &		
Cause		Date	Step	Qty	(or Non-conformance	Chie	f Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data													
Equip/Tooling													
Operator													
Material													
Setup						•							
Other								٠					
Process													
Supplier			İ										
Training							1						
Unapproved													
		-				F	AULT	CATE	GORY				
Landi	ng G	iear				General					•		
		Bending				Bend		irain			Ovalized		Pressure/Forced
		Centre No	ot Concei	ntric to	o/s	BOM/Route	Н	lardwa	re		Over/Under	tolerance	Temperature/Cure

				l .	 •
	Cracks	Broken/Damaged	Inspection Incomplete	Part Incorrect	 Weld
	Crushed/Crimped	Burrs	Instructions Incomplete/Unclear	Part Lost/Missing	Wrong Stock Pulled
[Cuffs	Contamination	Maintenance	Part Moved	
[Heat Treat	Countersink	Mislabeled	Positioned Wrong	
[Inspection Strip in Tube	Cut Too Short	Misread	Power Loss/Surge	Other
[Ripples in Bend	Drill Holes	 Offset		
	Torque Waves in Extrusion	Drawing	Out of Calibration		
. [Turning Sequence	Finish	Out of Sequence		
	Wave/Twist in Tube	Folio	Outside Dimensions		

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Work Order I September-27-13 12			*107	7555*						Page 2
Item ID: D3 Revision ID: Item Name: Guid	137-3 de		Accept	*N9000	14 0	100)* ^s	Setup Start	171	S1* S2*
	7/13 Start Qty: 20.0 7/13 Req'd Qty: 20.0			Cust Item ID Customer:):					
Approvals: Pr	ocess Plan:		Tooling: SPC (Y/N):	Dat			F	Run Start Stop	1/	R1* R2*
Sequence ID/ Work Center ID 130 *130* QC	Operation Description QC8- Inspect parts - s	second check	Set Up/ Run Hours 0.00	Tool ID		Plan Code	Accept Qty 40	•	Reject Number	Insp. Stamp
Quality Control 140 *1 10* Packaging Packaging	Identify as per dwg &	Stock Location: <mark>812</mark> 3	5 /2 0.00 0.00		-		ДОХ			26 3-10-7
150 *150* QC Quality Control	QC21- Final Inspection Memo	on - Work Order Release	0.00				#	H 13	-10-7 1016	·

M 13-10-07

		DQA:	Date:	
NCR: Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE			
		0 4 61 1		

										QA Closed:	Da	te:
Work Orde	er:				DISPOSITION	,			AGAINST DE	PARTMENT,	•	
Part N					Rework Scrap Use-as-is Work Order Update	Th	N herm	Skid-tube Machining oforming Large Fab	Crosstube Small Fab Finishing Composite	4	Water Jet d. Eng. Coor. re/Packaging Supplier	Quality Other
Root				Descri	ption of work order update	Initi	ial	Ac	tion	Sign &		
Cause	Date	Step	Qty	,	or Non-conformance	Chief	Eng	Desc	ription	Date	Verification	n QC Inspector
Doc/Data												
Equip/Tooling							l					
Operator												
Material												
Setup												
Other							1					
Process					•		1				ļ.	
Supplier							l					
Training												
Unapproved		1					l					
					 	AULT C	ATEG	iORY				
Laŋdi	ng Gear			_	General				_	7	1	_
	Bending			<u> </u>	Bend	Gra				Ovalized		Pressure/Forced
		lot Conce	ntric to (O/S	BOM/Route		rdwar		<u> </u>	Over/Under		Temperature/Cure
	Cracks	_			Broken/Damaged	—	•	on Incomplete	_	Part Incorre		Weld
		/Crimped		<u> </u>	Burrs	_		ons Incomplete/	'Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs			<u> </u>	Contamination	\vdash		nance	_	Part Moved		
	Heat Tre			<u> </u>	Countersink	\vdash	slabel	ed		Positioned V		□
	— `	on Strip in	Tube	<u> </u>	Cut Too Short	├ ──	sread		L	Power Loss/	Surge	Other
	Ripples i			<u> </u>	Drill Holes	\vdash	fset					
	⊢ — '	Naves in E		n	Drawing	\vdash		alibration				
		Sequence		<u> </u>	Finish	\vdash		equence				
1] Wave/T	wist in Tul	oe e	1	Folio	I IOu	tside '	Dimensions				

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Picklist Print

September-27-13 12:48:00 PM

Work Order ID:

107555

Parent Item:

D3137-3

Parent Item Name:

Guide

Start Date: 9/27/13

Required Date: 9/27/13

Start Qty: 20.00

Required Qty: 20.00

Comments:

IPP Rev:A02.05.29New IssueNG

IPP Rev:B 08-05-23 revE as per dwg DD verified by:EC IPP Rev c 08.07.03 ECN1207 EC verified by DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MDELRINB0.75X1.250 Delrin Bar		Purchased	No			100	f	10.6392	0.0791	1.665264			
Denni Bai				Location		Loc Oty	Lo	c Code					
		4		MAT018		10.639212							
				119	133	0.008							
				1200	035	0.001476			-			1	, 1
				1230	027	0.031736				3,5	M	/13/	2010
				→ m12	6794	10.598				3,5	م الدين		-010-

										DQA:	Date	:
NCR: Y	'es / 1	lo			WORK ORDER NON-	COI	NFORM	/ANCE / UPDAT				
										QA Closed:	Date	•
Work Orde	ır.				DISPOSITION		:		AGAINST DEI	PARTMENT	/PROCESS	
Part N	lo			·	Rework Scrap Use-as-is Work Order Update		Therm	Machining S noforming	Finishing omposite		Water Jet : d. Eng. Coor. e/Packaging Supplier	Engineering Quality Other
			<u> </u>									
Root			1_		ption of work order update		Initial	Action		Sign &		
Cause	Da	te Step	Qty		or Non-conformance	Cr	nief Eng	Description	on	Date	Verification	QC Inspector
Doc/Data						1						
Equip/Tooling												
Operator												
Material	_	,										
Setup												
Other												
Process												
Supplier				İ								
Training												
Unapproved			1									
					F	AUI	LT CATE	GORY				
Landir	ng Gear			·	General		_	,				
[Bend	ng			Bend		Grain			Ovalized		Pressure/Forced
	Centi	e Not Cond	entric to	O/S	BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure
	Crack	s			Broken/Damaged		Inspecti	on Incomplete		Part Incorrec	t -	Weld
	Crush	ed/Crimpe	d		Burrs		Instruct	ons Incomplete/Uncle	ear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs			ļ	Contamination		Mainte			Part Moved	_	-
	Heat	Treat			Countersink		Mislabe	led		Positioned W	/rong	
İ	Inspe	ction Strip	in Tube		Cut Too Short		Misread		<u> </u>	Power Loss/S	· -	Other
	Rippl	es in Bend			Drill Holes		Offset				_	

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

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DART AEROSPACE LTD	Work Order:	103511
Description: Guide	Part Number:	D3137-3
Inspection Dwg: D3137 Rev: F		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
0.175	+/-0.010	.177			Vern	126-06
Ø0.257	+0.005/-0.000	8.257			2(
Ø0.650 x 100°	+/-0.010	.651×106			17	
0.425	+/-0.010	. 425			- 1/	
0.550	+/-0.010	.550			11	
1.100	+/-0.010	1.100			1	
0.470	+/-0.010	.469	/		١,	
0.850	+/-0.010	.850			11	
0.143	+/-0.010	. 141			1,	

Measured by:	Onl	Audited by:	SS	Preliminary Approval:	
Date:	13/10/04	Date:	13-10-05	Date:	

Rev	Date	Change	Revised by	Approved
Α	03.11.27	New Issue	KJ/RF	
В	04.11.12	0.175 was 0.145 & Ø0.65 x 100° was Ø0.75 x 100°	KJ/JLM	
С	06.03.15	Dwg Rev updated	KJ/JLM	-
D	08.12.02	Dwg Rev updated	KJ/DD in	
E	13.09.10	Dimension revised per Dwg Rev F	KJ 👭	

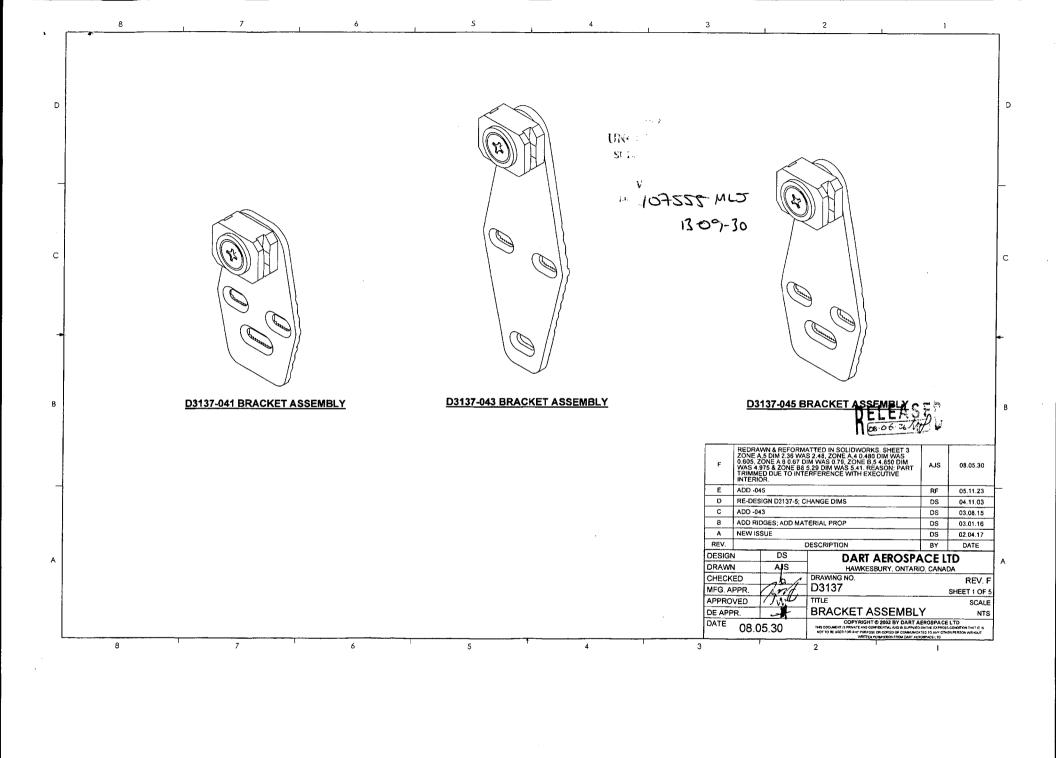
DQA:	Date:	

NCR:	Yes	/ No
NCN.	162 /	INU

WORK ORDER NON-CONFORMANCE / UPDATE

	·						<u>-</u>		QA Closed:	Date:		
Work Orde	֥				DISPOSITION			AGAINST DE	PARTMENT	/PROCESS		
WOIK OIGE	· -				Rework	1	Skid-tube	Crosstube		Water Jet	Engineering	
Part No	0				Scrap		Machining	Small Fab	Pro	d. Eng. Coor.	Quality	
i diti	·				Use-as-is	Ther	moforming	Finishing		re/Packaging	Other	
NCR N	0.				Work Order Update	''''	Large Fab	Composite	1100,010	Supplier	†	
						'		' <u>L</u>				
Root		-		Descri	ption of work order update	Initial	Ac	tion	Sign &			
Cause	Date	Step	Qty	(or Non-conformance	Chief Eng	g Desc	ription	Date	Verification	QC Inspector	
Doc/Data							" '					
Equip/Tooling												
Operator												
Material .							1		·			
Setup												
Other												
Process						ļ.						
Supplier												
Training												
Unapproved												
					F	AULT CAT	EGORY					
Landin	g Gear				General				_			
	Bending				Bend	Grain			Ovalized		Pressure/Forced	
	Centre No	ot Concei	ntric to	o/s	BOM/Route	Hardw	are		Over/Under	tolerance	Temperature/Cure	
	Cracks				Broken/Damaged	Inspec	tion Incomplete		Part Incorre	ct	Weld	
	Crushed/	Crimped			Burrs	Instru	ctions Incomplete/	'Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled	
	Cuffs Contamination				Contamination	Maint	enance		Part Moved			
	Heat Treat Countersink				Countersink	Mislat	eled		Positioned V	Vrong		
	Inspection Strip in Tube Cut Too Short			Cut Too Short	Misrea	ad		Power Loss/	Surge	Other		
Ripples in Bend Drill Holes				Offset		_						
	Torque Waves in Extrusion Drawing			Out of Calibration								
	Turning Sequence Finish				Out of	Sequence						
	Wave/Twist in Tube Folio				Folio	Outsic	Outside Dimensions					

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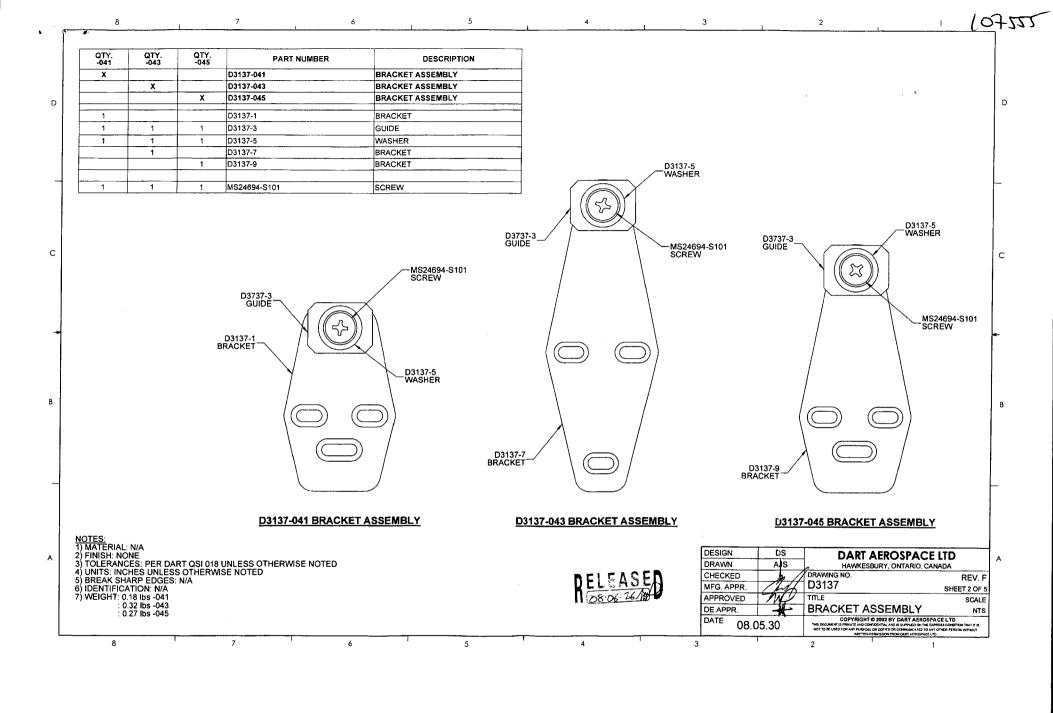
DQA:	Date:	

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

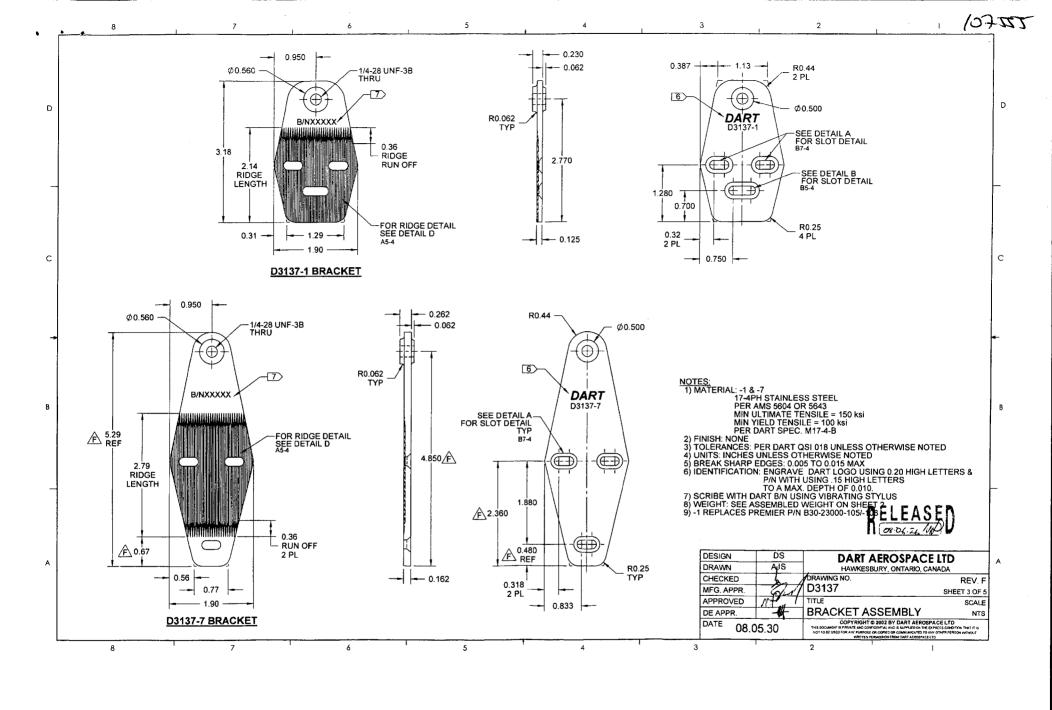
	•							•		QA Closed:	Date	e:
Work Orde	r •				DISPOSITION				AGAINST DE	PARTMENT,	PROCESS	
Part No			••••		Rework Scrap		Мас	d-tube chining	Crosstube Small Fab	Pro	Engineering Quality	
NCR N	0				Use-as-is Work Order Update		hermofo Lar	ge Fab	Finishing Composite			
Root				Descri	ption of work order update	Initi	al	Ad	ction	Sign &		
Cause	Date	Step	Qty	•	or Non-conformance	Chief	Eng	Desc	cription	Date	Verification	QC Inspector
Doc/Data												
quip/Tooling												
Operator												
Material												
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Process												
Supplier												
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					F	AULT C	ATEGO	RY				
Landin	g Gear				General					_	_	
L	Bending				Bend	Gra	ain			Ovalized		Pressure/Forced
	Centre No	ot Conce	ntric to (o/s	BOM/Route	Har	rdware		<u> </u>	Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged	Ins	pection I	Incomplete	<u>L</u>	Part Incorred	ct _	Weld
	Crushed/	Crimped		L	Burrs	Inst	tructions	s Incomplete,	/Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
·	Cuffs				Contamination	Ma	aintenai	nce		Part Moved		
	Heat Trea	at			Countersink	Mis	slabeled			Positioned V	Vrong _	_
	Inspectio	n Strip in	Tube		Cut Too Short	Mis	sread		[Power Loss/	Surge	Other
	Ripples in	n Bend			Drill Holes	Off	fset					
	Torque Waves in Extrusion Drawing			Out of Calibration								
	Turning Sequence Finish				Out of Sequence							
	Wave/Twist in Tube Folio				Folio	Ou	tside Dir	mensions				

Wave/Twist in Tube



			DQA:	Date:
NCR:	Yes / N	WORK ORDER NON-CONFORMA	ANCE / UPDATE	

											QA Closed:	Date	2:
Work Orde	٠٢٠					DISPOSITION				AGAINST DE	PARTMENT,	PROCESS	
Part N	lo.					Rework Scrap Use-as-is Work Order Update		Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Large Fab Composite			Pro Rec/Stor	Engineering Quality Other	
Root					Descri	ption of work order update		nitial	Act	tion	Sign &		
Cause	l	Date	Step	Qty	•	or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data													
Equip/Tooling													
Operator													·
Material													
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Other													
Process													
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		·····				· · · · · · · · · · · · · · · · · · ·	AUL	T CATE	GORY				
Landi	_	Ī			_	General		ا ما			1	Г	¬₀ , , , , , , , , , , , , , , , , , , ,
		Bending			_	Bend	-	Grain		-	Ovalized	<u> </u>	Pressure/Forced
		Centre No	ot Concer	ntric to	^{0/s} -	BOM/Route	-	Hardwa		<u> </u>	Over/Under Part Incorred	 -	Temperature/Cure Weld
		Cracks Crushed/	Crimpod		-	Broken/Damaged Burrs	-		on Incomplete ions Incomplete/	Unclose	Part Lost/Mi	} -	Wrong Stock Pulled
		1	Crimped		<u> </u>	 	-	Mainte	·	Officieal	Part Moved	221118	
	<u> </u>	Cuffs Contamination Heat Treat Countersink				\vdash	Mislabe		-	Positioned V	Vrong		
	\vdash			Tube	-	Cut Too Short	\vdash	Misread		<u> </u>	Power Loss/		Other
				Drill Holes		Offset	-	<u> </u>	1				
					Drawing		l	Calibration					
	Turning Sequence Finish				-		ł	Sequence					
	Wave/Twist in Tube Folio				Folio	-		Dimensions					



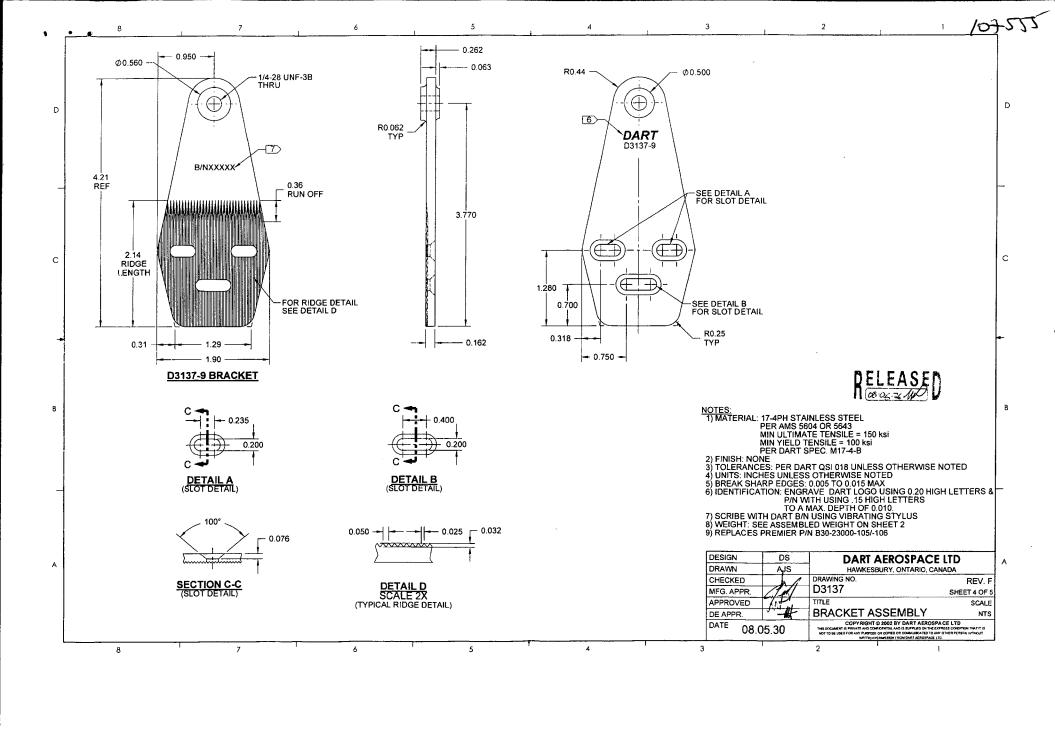
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NCR:	Yes	/	No

DQA:

Date:

NCR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE													
											QA Closed:	Date	:
Vork Orde	er:					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part N	•			•		Rework Scrap			Skid-tube Aachining	Crosstube Small Fab	Pro	Water Jet d. Eng. Coor.	Engineering Quality
NCR N	lo.					Use-as-is Work Order Update		Thermoforming Finishing Large Fab Composite					
Root					Descri	iption of work order update	ln	itial	Act	ion	Sign &		
Cause		Date	Step	Qty		or Non-conformance	Chie	ef Eng	Descr	ription	Date	Verification	QC Inspector
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upplier													
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napproved													
							FAULT	CATE	GORY		<u>-</u>		
Landi	ng (Gear				General					_		
		Bending				Bend		Grain			Ovalized		Pressure/Forced
		Centre No	ot Concer	ntric to (o/s	BOM/Route	∏⊦	Hardwa	re		Over/Under	tolerance	Temperature/Cure
		Cracks				Broken/Damaged	10	nspecti	on Incomplete		Part Incorre	ct [Weld
		Crushed/	Crimped			Burrs		nstruct	ions Incomplete/l	Jnclear	Part Lost/Mi	ssing	Wrong Stock Pulled
		Cuffs				Contamination	\Box	Mainte	nance		Part Moved		_
		Heat Trea	ıt			Countersink		Mislabe	led		Positioned V	Vrong	<u>, </u>
		Inspection	n Strip in	Tube		Cut Too Short		Misread	l		Power Loss/	Surge	Other
		Ripples in	Bend			Drill Holes	П	Offset					
		Torque W	aves in E	xtrusio	n	Drawing	П	Out of C	Calibration				
		Turning S				Finish	П	Out of Sequence					
		Wave/Tw	ist in Tub	oe .		Folio	\Box	Outside	Dimensions				

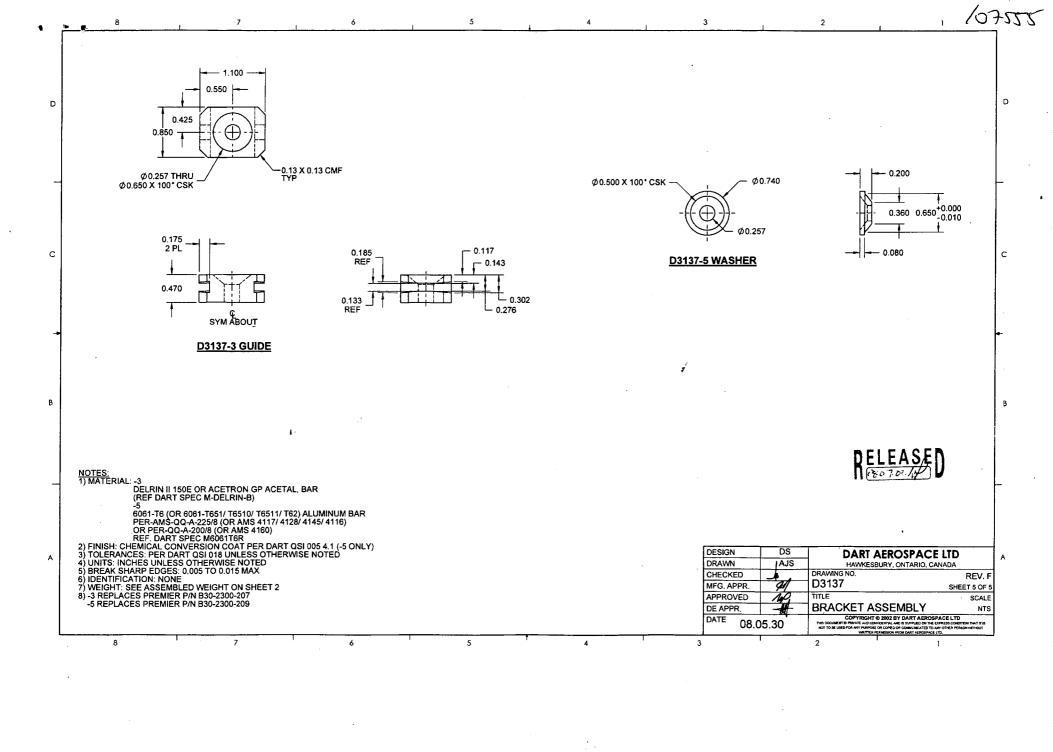
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			DQA:	Date:	
NCR:	Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE			
			OA Closed:	Date:	

										QA Closed:	Date:	
Work Order	••				DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Part No	D				Rework Scrap Use-as-is Work Order Update		N Therm	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	Pro Rec/Stor	Engineering Quality Other	
Root				Descri	ption of work order update	Ini	tial	Act	tion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chie	f Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training							3					
Unapproved		1	<u>!</u>			AULT	CATE	GORY				
Landing	g Gear	····			General							
	Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend			Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes	In In In In In In In In In In In In In I	Grain Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled Misread Offset			Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ssing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other	
•				Drawing	Out of Calibration							
-					Finish	-	Out of Sequence					
<u> </u>	Wave/Twist in Tube Folio			=	-		Dimensions					

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										DQ	A:	Date:	
NCR: Y	'es / No			:	WORK ORDER NON-C	10:	NFORM	MANCE / UP	DATE	QA Close	۰q٠	Date:	
			****		DISPOSITION				AGAINST D				
Work Orde	er:				Rework			Skid-tube	Crosstube			ater Jet	Engineering
Part N	lo		·····		Scrap Use-as-is			Machining	Small Fab Finishing		rod. Eng	· -	Quality Other
NCR'N	lo				Work Order Update				Composite				
Root		Description of work order update					Initial	Ac	tion	Sign &			
Cause	Date	Step	Qty		or Non-conformance	Ch	ief Eng	Desc	ription	Date	Ver	rification	QC Inspector
Doc/Data													
Equip/Tooling						ĺ							
Operator								:	•				
Material				•									
Setup		1			·								
Other													
Process							,				'		
Supplier					. ·						Ì		
Training											·		
Unapproved		<u> </u>				<u> </u>							
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Landir	ng Gear				General	_	7		r	-			ī. , .
	Bending				Bend	<u> </u>	Grain		<u> </u>	Ovalized			Pressure/Forced
,	Centre N	ot Conce	ntric to	o/s	BOM/Route	_	Hardwa		. -	Over/Und		nce	Temperature/Cure
	Cracks	ė		<u> </u>	Broken/Damaged	_		on incomplete		Part Inco		<u> </u>	Weld
]	Crushed/	'Crimped		` <u> </u>	Burrs		4	ions Incomplete/	/Unclear	Part Lost,	•		Wrong Stock Pulled
	Cuffs				Contamination	<u></u>	Mainte		<u> </u> _	Part Mov			
	Heat Tre				Countersink		Mislabe		_	Positione	_	· —	7
	Inspection Strip in Tube			Cut Too Short		Misread	i '		Power Lo	ss/Surge		Other	
	Ripples in Bend D				Drill Holes	1	Offset						

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing Finish

Folio

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